262230US0PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Peter BASSLER, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/EP03/07987

GAU:

FILED:

Herewith

EXAMINER:

FOR:

METHOD FOR THE CONTINUOUS PURIFICATION BY DISTILLATION OF METHANOL, USED AS A SOLVENT IN THE SYNTHESIS OF PROPYLENE OXIDE WITHOUT COUPLING PRODUCTS, WITH THE

SIMULTANEOUS ISOLATION OF THE METHOXY PROPANOLS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

	The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
	A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).
REL	ATED CASES
	Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
	A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).
CER	TIFICATION
	Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of

foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to

DEPOSIT ACCOUNT

the filing of this statement.

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number <u>15-0030</u>. A duplicate copy of this sheet is enclosed.

□ No item of information contained in this information disclosure statement was cited in a communication from a

Respectfully submitted,

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Form PTO 1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY DOCKET NO.		SERIAL NO. New U.S. PCT Application Based on PCT/EP03/07987			
				262230US0PCT					
-				APPLICANT					
LIST OF REFERENCES CITED BY APPLICANT				Peter BASSLER, et al.					
				FILING DATE	GROUP				
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				U.S. PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME CLASS SUB FILING DATE CLASS IF APPROPRIATE					
	AA	2 471 134	05/24/49	WRIGHT, Richard O.					
	AB	4 230 533	10/28/80	GIROUX, Victor A.					
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	AD								
	ΑE								
	AF								
	AG								
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	AH	00 07965	02/17/00	WO (with English abstract & equivalent 6479680)				NO	
	Al	02 02544	01/10/02	WO (with English abstract & equivalent 6756503 & US 2003/0146080)				NO	
	AJ	02 02545	01/10/02	WO (with English abstract & equivalent of US 2003/0144535)		NO		NO	
	AK	1 266 894	12/18/02	EP		NO		NO	
	AL	0 122 367	10/24/84	EP		NO		NO	
	AM	0 133 510	02/27/85	EP (equivalent of CA 1222717)		NO		NO	
	AN	0 126 288	11/28/84	EP (equivalent of CA 1242309)		NO		NO	
	AO	196 23 609	12/18/97	DE (equivalent of US 6008389)	!			NO	
	AP	197 23 949	12/10/98	DE (equivalent of US 6380119 & US 67 US 2004/0152583)	10002 &			NO	
		OTHER RE	FERENCES (Including Author, Title, Date, Pertinent	Pages, e	tc.)			
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	AV	LESTAK, Frigyes et al. "Advanced Distillation Saves Energy & Capital", Chemical Engineering, vol. 7, pages 72-76 1997							
	AW	"Hydrogen Peroxide", ledition, vol. 13, pages	· ·	cyclopedia of Industrial Chemistry 5 th Additional References sheet(s) attached					
Examiner	_	L			Date Cor	Date Considered			
	itial if r	reference is considered	whether or no	t citation is in conformance with MPEP 60			citation	if not in	
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STATEMENT OF RELEVANCY

1) References <u>AH-AK</u> have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
provided by the international Bearding Hamority.
2) References have been cited in the corresponding Search Report. A copy of these references is being submitted herewith.
3) References <u>AA, AB, AL-AW</u> are discussed in the specification. A copy of these references is being submitted here with.
4) References are additional prior art known to Applicant. A copy of these references is being submitted herewith.

EP 0 122 367

In the column for the separation by distillation of feed product entering the distillation column at the feed point consisting of several fractions, into a pure top fraction and a pure bottom fraction and several, preferably one or two, medium-boiling fractions in the boiling range between the top fraction and bottom fraction and free or largely free of contamination by top and bottom fractions, partition devices acting in the longitudinal direction to prevent cross-mixing of liquid streams and/or vapour streams are arranged in a part region of the distillation column below and/or above the feed point and divide the distillation column into a feed section, where the feed product enters, and a take-off section, from which the medium-boiling fractions emerge, and the partition devices acting in the longitudinal direction are taken along such a number of separation stages that medium-boiling fractions free or largely free from contamination by top fractions and bottom fraction can be taken off in the take-off section.

EP 0 133 510

A process for separating a mixture which is azeotropic or behaves almost azeotropically and is difficult to separate by distillation, into two pure or substantially pure fractions by distillation, by adding a further component, using a procedure which is similar to extractive distillation and is carried out in a distillation column, a section of which is divided into a feed part and a take-off part by a separating means which is effective in the longitudinal direction and prevents cross-mixing of liquid streams and/or vapor streams,

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STATEMENT OF RELEVANCY

EP 0 133 510 cont.

wherein the azeotropic mixture is fed in part-streams to the feed part and to the take-off part, in each case at or near the top, and one of the two pure or substantially pure fractions is removed as overhead product from the distillation column, and the other fraction is removed as side product from the take-off part, the side product passing from the feed part into the take-off part only at the lower end of the separating means.

EP 0 126 288

A method of carrying out a chemical reaction and simultaneously separating a product mixture into several fractions by means of a distillation column which, in parts, is divided into a reaction section and a distillation section by separating means which are effective in the longitudinal direction and prevent cross-mixing of liquid and/or vapor streams, wherein two or more reactants and, where relevant, a catalyst are fed into the reaction section (3), and at the same time one or more medium-boiling fractions, which can consist of reactants and/or reaction products and are free, or substantially free, from contamination by overhead and bottom fractions, are taken off in vapor or liquid form from the distillation section (4).